

PATENT APPLICATION
Docket No: 14321.81

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
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 Naoki Fujiwara et al.)
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Serial No.: 10/555,156) Art Unit
) 2828
Filing Date: November 2, 2005)
)
Confirmation No.: 3941)
)
For: WAVELENGTH TUNABLE DISTRIBUTED)
 BRAGG REFLECTOR (DBR) LASER (AMENDED))

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed listed references are disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof that is not a US patent document is also enclosed.

Statement of Relevance of References Listed
Unaccompanied by English Translation
Under 37 CFR § 1.98(a)(3)

In accordance with 37 CFR § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided.

Japanese Publication No. 03-044084: PURPOSE: To improve the quality of a guide layer, to lengthen the lifetime of carriers and to increase index variation by forming a buffer layer having a band gap larger than the guide layer under the guide layer. CONSTITUTION: When a guide layer 3 in the optical reflection region LD of a DBR laser is grown, a buffer layer 10 having a band gap larger than the guide layer 3 is grown first, and the guide layer 3 is grown continuously on the buffer layer 10. The DBR laser constituted in this manner is oscillated by making currents I1 flow between electrodes 7 and 9, and the oscillation wavelength can be varied by making currents 12 flow between electrodes 8 and 9. The oscillation wavelength of the DBR laser is changed largely. It is because the quality of the guide layer is improved, the lifetime of carriers is lengthened and index variation is increased.

Dated this 28th day of December 2006.

Respectfully submitted,

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